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L1	210	398/50.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/06/19 18:34
L2	162	398/75.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/06/19 18:34
L3	665	709/235.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/06/19 18:34
L4	5106	709/217.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/06/19 18:34
L5	2172	709/218.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/06/19 18:34
L6	4519	709/219.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/06/19 18:34
L7	201	(cache intermediary proxy thin) near3 (server\$1) same (congestion)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/06/19 18:43
L8	232	(cache intermediary proxy thin) near3 (server\$1) same (congest\$6)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/06/19 18:43
L9	261	(cache intermedia\$6 proxy thin) near3 (server\$1) same (congest\$6)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/06/19 18:37

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L10	1151	(cache intermedia\$6 proxy thin) near3 (server\$1) same (network\$6 with traffic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/06/19 18:38
L11	5	10 and 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/06/19 18:38
L12	67	10 and 4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/06/19 18:37
L13	35	10 and 5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/06/19 18:37
L14	75	10 and 6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/06/19 18:37
L15	35	(cache intermedia\$6 proxy thin) near3 (server\$1) same (packet adj loss)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/06/19 18:39
L16	62	(cache intermedia\$6 proxy thin) near3 (server\$1) same (packet with (loss lose losing lost))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR ·	OFF	2007/06/19 18:39
L17	213	(cache caching intermediary proxy thin) near3 (server\$1) same (congestion)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/06/19 18:43
L18	244	(cache caching intermediary proxy thin) near3 (server\$1) same (congest\$6)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/06/19 18:44

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L19	14197	(congest\$6) same (messag\$5 indicator\$1 indication\$1 quer\$5 response\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/06/19 18:45
L20	163	19 and 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/06/19 18:45
L21	85	19 and 4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/06/19 18:45
L22	46	19 and 5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/06/19 18:45
L23	91	19 and 6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/06/19 18:46



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Caching in networks (extended abstract)

Friedhelm Meyer auf der Heide, Berthold Vöcking, Matthias Westermann

February 2000 Proceedings of the eleventh annual ACM-SIAM symposium on Discrete algorithms SODA '00

Publisher: Society for Industrial and Applied Mathematics

Full text available: pdf(1.09 MB)

Additional Information: full citation, references, citings, index terms

Mitigating server-side congestion in the Internet through pseudoserving

Keith Kong, Dipak Ghosal

August 1999 IEEE/ACM Transactions on Networking (TON), Volume 7 Issue 4

Publisher: IEEE Press

Full text available: 📆 pdf(229.43 KB) Additional Information: full citation, references, citings, index terms

Keywords: Internet server technology, caching, flash-crowd, pseudoserving

3 Papers: A survey of web caching schemes for the Internet

Jia Wang

October 1999 ACM SIGCOMM Computer Communication Review, Volume 29 Issue 5

Publisher: ACM Press

Full text available: pdf(1.15 MB) Additional Information: full citation, abstract, references, citings

The World Wide Web can be considered as a large distributed information system that provides access to shared data objects. As one of the most popular applications currently running on the Internet, the World Wide Web is of an exponential growth in size, which results in network congestion and server overloading. Web caching has been recognized as one of the effective schemes to alleviate the service bottleneck and reduce the network traffic, thereby minimize the user access latency. In this pap ...

Web caching using access statistics

Adam Meyerson, Kamesh Munagala, Serge Plotkin

January 2001 Proceedings of the twelfth annual ACM-SIAM symposium on Discrete algorithms SODA '01

Publisher: Society for Industrial and Applied Mathematics

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(862.29 KB)

We consider the problem of caching web pages with the objective of minimizing latency of access. Demands for web domains/pages are computed using access statistics; the frequency with which these statistics change is considerably longer than the frequency of page requests. We model caches as being constrained by total size and total number of ports: each cache can handle only a limited request rate and can store only a limited number of domains (eg. modelling bounded update traffic). When the ...

5 Improving reliable transport and handoff performance in cellular wireless networks

Hari Balakrishnan, Srinivasan Seshan, Randy H. Katz December 1995 Wireless Networks, Volume 1 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: pdf(1.12 MB) Additional Information: full citation, abstract, references, citings

TCP is a reliable transport protocol tuned to perform well in traditional networks where congestion is the primary cause of packet loss. However, networks with wireless links and mobile hosts incur significant losses due to bit-errors and hand-offs. This environment violates many of the assumptions made by TCP, causing degraded end-to-end performance. In this paper, we describe the additions and modifications to the standard Internet protocol stack (TCP/IP) to improve end-to-end reliable tr ...

6 Papers: Effects of ensemble-TCP

Lars Eggert, John Heidemann, Joe Touch
January 2000 ACM SIGCOMM Computer Communication Review, Volume 30 Issue 1

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings Full text available: pdf(1.57 MB)

TCP currently recalculates the state of each connection from a fixed set of initial parameters; this recalculation occurs over several round trips, during which the connection can be less than efficient. TCP control block sharing is a technique for reusing information among connections in series and aggregating it among connections in parallel. This paper explores the design space of a modified TCP stack that utilizes these two ideas, and one possible design (E-TCP) is presented in detail. E-TCP ...

Improving TCP/IP performance over wireless networks

Hari Balakrishnan, Srinivasan Seshan, Elan Amir, Randy H. Katz

December 1995 Proceedings of the 1st annual international conference on Mobile computing and networking MobiCom '95

Publisher: ACM Press

Additional Information: full citation, abstract, references, cited by, index Full text available: pdf(1.04 MB) terms

TCP is a reliable transport protocol tuned to perform well in traditional networks made up of links with low bit-error rates. Networks with higher bit-error rates, such as those with wireless links and mobile hosts, violate many of the assumptions made by TCP, causing degraded end-to-end performance. In this paper, we describe the design and implementation of a simple protocol, called the snoop protocol, that improves TCP performance in wireless networks. The protocol modifies network-la ...

Modeling the performance of HTTP over several transport protocols John Heidemann, Katia Obraczka, Joe Touch

October 1997 IEEE/ACM Transactions on Networking (TON), Volume 5 Issue 5

Publisher: IEEE Press

Full text available: Additional Information: pdf(388.85 KB)

full citation, references, citings, index terms

Keywords: HTTP, TCP, computer protocol performance, internetworking

9 Mocha: a quality adaptive multimedia proxy cache for internet streaming

, Reza Rejaie, Jussi Kangasharju

January 2001 Proceedings of the 11th international workshop on Network and operating systems support for digital audio and video NOSSDAV '01

Publisher: ACM Press

Full text available: pdf(240.20 KB)

Additional Information: full citation, abstract, references, citings, index terms

Multimedia proxy caching is a client-oriented solution for large-scale delivery of high quality streams over heterogeneous networks such as the Internet. Existing solutions for multimedia proxy caching are unable to adjust quality of cached streams. Thus these solutions either can not maximize delivered quality or exhibit poor caching efficiency. This paper presents the design and implementation of Mocha, a quality adaptive multimedia proxy cache for layered encoded streams ...

10 Network performance effects of HTTP/1.1, CSS1, and PNG

Henrik Frystyk Nielsen, James Gettys, Anselm Baird-Smith, Eric Prud'hommeaux, Håkon Wium Lie, Chris Lilley

October 1997 ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '97. Volume 27 Issue 4

Publisher: ACM Press

Full text available: pdf(1.62 MB)

Additional Information: full citation, abstract, references, citings, index terms

We describe our investigation of the effect of persistent connections, pipelining and link level document compression on our client and server HTTP implementations. A simple test setup is used to verify HTTP/1.1's design and understand HTTP/1.1 implementation strategies. We present TCP and real time performance data between the libwww robot [27] and both the W3C's Jigsaw [28] and Apache [29] HTTP servers using HTTP/1.0, HTTP/1.1 with persistent connections, HTTP/1.1 with pipelined requests, and ...

11 Replacement policies for a proxy cache

Luigi Rizzo, Lorenzo Vicisano

April 2000 IEEE/ACM Transactions on Networking (TON), Volume 8 Issue 2

Publisher: IEEE Press

Full text available: pdf(277.42 KB) Additional Information: full citation, references, citings, index terms

Keywords: Web, caching, communication networks, policies, replacement

12 Analyzing stability in wide-area network performance

Hari Balakrishnan, Mark Stemm, Srinivasan Seshan, Randy H. Katz

June 1997 ACM SIGMETRICS Performance Evaluation Review, Proceedings of the 1997 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '97, Volume 25 Issue 1

Publisher: ACM Press

Full text available: pdf(1.76 MB) Additional Information: full citation, abstract, references, citings, index terms

The Internet is a very large scale, complex, dynamical system that is hard to model and analyze. In this paper, we develop and analyze statistical models for the observed end-toend network performance based on extensive packet-level traces (consisting of approximately 1.5 billion packets) collected from the primary Web site for the Atlanta Summer Olympic Games in 1996. We find that observed mean throughputs for these transfers measured over 60 million complete connections vary widely as a funct ...

13 Performance analysis of cache strategy for signaling traffic management in a wireless



ATM network

Gi Moo Choi, Dong Ho Cho

November 2000 Wireless Networks, Volume 6 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: The pdf(417.77 KB) Additional Information: full citation, references, index terms

14 Caching: A multicast-based distributed file system for the internet



Björn Grönvall, Ian Marsh, Stephen Pink

September 1996 Proceedings of the 7th workshop on ACM SIGOPS European workshop: Systems support for worldwide applications EW 7

Publisher: ACM Press

Full text available: Tpdf(799.81 KB) Additional Information: full citation, abstract, references, citings

JetFile is a file system designed with multicast as its distribution mechanism. The goal is to support a large number of clients in an environment such as the Internet where hosts are attached to both high and low speed networks, sometimes over long distances. JetFile is designed for reduced reliance on servers by allowing client-to-client updates using scalable reliable multicast. Clients on high speed networks prefetch large numbers of files. On low speed networks such as wireless, special cac ...

15 The cache location problem

P. Krishnan, Danny Raz, Yuval Shavitt

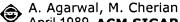
October 2000 IEEE/ACM Transactions on Networking (TON), Volume 8 Issue 5

Publisher: IEEE Press

Full text available: pdf(470.11 KB) Additional Information: full citation, references, citings, index terms

Keywords: location problem, mirror placement, transparent cache

16 Adaptive backoff synchronization techniques



April 1989 ACM SIGARCH Computer Architecture News, Proceedings of the 16th annual international symposium on Computer architecture ISCA '89, Volume

17 Issue 3 Publisher: ACM Press

Full text available: pdf(1.44 MB)

Additional Information: full citation, abstract, references, citings, index terms

Shared-memory multiprocessors commonly use shared variables for synchronization. Our simulations of real parallel applications show that large-scale cache-coherent multiprocessors suffer significant amounts of invalidation traffic due to synchronization. Large multiprocessors that do not cache synchronization variables are often more severely impacted. If this synchronization traffic is not reduced or managed adequately, synchronization references can cause severe congestion in the network. ...

17 <u>Differentiated end-to-end Internet services using a weighted proportional fair sharing</u>



TCP

Jon Crowcroft, Philippe Oechslin

July 1998 ACM SIGCOMM Computer Communication Review, Volume 28 Issue 3

Publisher: ACM Press

Full text available: pdf(872.28 KB) Additional Information: full citation, abstract, citings, index terms

In this document we study the application of weighted proportional fairness to data flows in the Internet. We let the users set the weights of their connections in order to maximise the utility they get from the network. When combined with a pricing scheme where connections are billed by weight and time, such a system is known to maximise the total utility of the network. Our study case is a national Web cache server connected to long distance links. We propose two ways of weighting TCP connecti ...

18 Placement algorithms for hierarchical cooperative caching

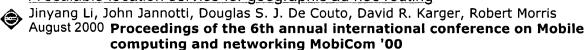
Madhukar R. Korupolu, C. Greg Plaxton, Rajmohan Rajaraman

January 1999 Proceedings of the tenth annual ACM-SIAM symposium on Discrete algorithms SODA '99

Publisher: Society for Industrial and Applied Mathematics

Full text available: pdf(1.36 MB) Additional Information: full citation, references, citings, index terms

19 A scalable location service for geographic ad hoc routing



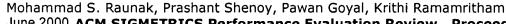
Publisher: ACM Press

Full text available: pdf(1.28 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

GLS is a new distributed location service which tracks mobile node locations. GLS combined with geographic forwarding allows the construction of ad hoc mobile networks that scale to a larger number of nodes than possible with previous work. GLS is decentralized and runs on the mobile nodes themselves, requiring no fixed infrastructure. Each mobile node periodically updates a small set of other nodes (its location servers) with its current location. A node sends its position updates to its I ...

20 Implications of proxy caching for provisioning networks and servers



June 2000 ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2000 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '00, Volume 28 Issue 1

Publisher: ACM Press

Full text available: pdf(972.72 KB)

Additional Information: full citation, abstract, references, citings, index terms

In this paper, we examine the potential benefits of web proxy caches in improving the effective capacity of servers and networks. Since networks and servers are typically provisioned based on a high percentile of the load, we focus on the effects of proxy caching on the tail of the load distribution. We find that, unlike their substantial impact on the average load, proxies have a diminished impact on the tail of the load distribution. The exact reduction in the tail and the corresp ...

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Kataoka, Mikio; Toumura, Kunihiko; Okita, Hideki; Yamamoto, Junji; Suzuki, To

Conference on

Aug. 2006 Page(s):40 - 40

Digital Object Identifier 10.1109/ICCGI.2006.26

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